



Monthly Oversight Report 18
ACS NPL Site
Griffith, Indiana
June 1, 2002 - June 28, 2002



BLACK & VEATCH

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Black & Veatch Special Projects Corp.

USEPA/RAC VII
American Chemical Services RAO (057-ROBF-05J7)

BVSPC Project 46526
BVSPC File C.3
July 5, 2002

Mr. Kevin Adler
U.S. Environmental Protection Agency
77 W. Jackson Boulevard (SR-6J)
Chicago, Illinois 60604-3590

✓ KA
7/11/02

Subject: Monthly Oversight Summary Report
No. 18 for June 2002

Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 18 for June 2002 for the American Chemical Services Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email (campbelllm@bv.com).

Sincerely,

BLACK & VEATCH Special Projects Corp.

Larry M. Campbell, P.E.
Site Manager

Enclosure

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Monthly Oversight Summary Report No. 18
ACS Superfund Site WA57, 46526.238

Reporting Period: Month of June (June 1, 2002 - June 28, 2002)

BVSPC O/S Dates: June 6, 13, 20, and 27, 2002

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	1	Electrical Contractor
Fliteway	1	OFCA Blower Shed Contractor
Ryan Construction	1	General Contractor
Midwest Environmental, Inc.	3	OFCA Cover Maintenance Contractor
Great Lakes Testing	1	Clay Compaction Testing

Construction Activities

Major Activities:

- Fliteway reconfigured the float switches in the condensate knockout tank in the Off-Site Containment Area blower shed.
- Austgen revised the control logic for the variable frequency drive at the thermal oxidizer and the scrubber blow-down logic sequence.
- Ryan Construction pressure tested the Off-Site Containment Area vapor conveyance line, installed a vibrational isolator on the blower effluent piping, and reconfigured the natural gas supply switches at the thermal oxidizer.
- Montgomery Watson Harza installed condensate knockout traps at the sample ports for the vapor conveyance piping.
- Montgomery Watson Harza operated the Off-Site Containment Area in-situ soil vapor extraction system, proved-out 22 of the 42 wells, and collected compliance samples to determine the destruction efficiency of the thermal oxidizer.
- Montgomery Watson Harza conducted a pilot experiment to determine the heat transfer capacity of the scrubber reservoir water.
- Montgomery Watson Harza reported that it is finalizing the contract with Environmental Contractors of Illinois for the Off-Site Construction Area engineered cover construction.
- Midwest Environmental, Inc. conducted maintenance activities for the Off-Site Containment Area interim cover.

- Montgomery Watson Harza and Austgen straightened piezometer P110.
- Montgomery Watson Harza reported a health and safety incident.
- Montgomery Watson Harza held weekly construction coordination meetings on June 6, 13, 20, and 27, 2002.

Activities Performed:

Fliteway returned to the site on June 3, 2002, in order to reconfigure the float switches in the Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) system condensate knockout tank. Last month, the float switches failed, allowing condensate to flood the system. Montgomery Watson Harza (MWH) reported that it broke the gate valve to OFCA ISVE well SVE-14 while repairing the float switches in the knockout tank. MWH stated that it is ordering a replacement valve and will close the valve during system operation. MWH also reported that Austgen revised the control logic for the knockout tank pump and repaired the control logic for the variable frequency drive (VFD) at the thermal oxidizer that had malfunctioned because of the condensate in the system and gauges.

Ryan Construction reconfigured the switches for the natural gas supply to the thermal oxidizer. MWH operated the system from June 6 to June 9, 2002, when MWH shut the system down remotely because of non-normal readings on the control screens. When MWH returned to the site on Monday, June 10, 2002, it observed that water had accumulated in the vapor conveyance piping and flooded the pressure gauges at the groundwater treatment plant (GWTP). MWH reported that it confirmed that the new float switches in the condensate knockout tank in the OFCA blower shed were working properly. MWH flushed the water out of the conveyance piping and cleaned the pressure gauges. MWH resumed operating the OFCA ISVE system on June 11, 2002, pulling vapors from the 22 wells in Groups 3 and 4.

MWH stopped pulling vapors and operated the thermal oxidizer in hot idle mode on June 13, 2002, in order for Ryan Construction to pressure test the vapor conveyance line between the OFCA blower shed and the GWTP. Ryan Construction determined that the vapor conveyance line was not damaged. Based on the successful pressure test, MWH hypothesized that the water accumulating in the vapor conveyance line was from condensation. MWH installed knockout devices at the sampling ports of the conveyance line in the GWTP in order to remove the accumulating condensate and resumed system operation.

On Wednesday, June 19, 2002, MWH began preparations to collect a compliance sample when it observed that the liquid level in the scrubber reservoir had exceeded the high-high level. MWH shut down the ISVE system in order to remove the brine and repair the control logic. The control logic was repaired so that the recycle pump, that pumps at 40 gpm, will shut down should the liquid level in the reservoir exceed the high-level limit during blow-down. Once the liquid level exceeds the high-level limit, the city water valve will open, supplying only 7 gpm of water. MWH also observed that the VFD reset its set points while the thermal oxidizer was shut down. MWH reprogrammed the VFD and resumed system operation on Thursday, June 20, 2002.

MWH reported that it successfully proved-out 22 of the 42 OFCA ISVE wells. MWH continued to operate the OFCA ISVE system, attempting to establish flow from the remaining 20 wells. MWH anticipates completing the prove-out stage of the OFCA ISVE wells by early July.

MWH reported that it collected the summa canister sample for one round of compliance sampling for the thermal oxidizer after the vapor passed through the condensate knockout device. MWH reported that it would return to collecting samples from the sample port directly, upstream of the knockout device. MWH collected another compliance sample on Friday, June 28, 2002.

Ryan Construction installed a vibrational isolator on the effluent piping of the OFCA ISVE blower where it meets the vapor conveyance piping to the GWTP on June 13, 2002. This will aid in preventing additional holes from forming in the connecting seal from the vibrational movements of the piping.

On June 13, 2002, MWH conducted an experiment to determine the potential heat transfer capacity of the scrubber reservoir brine. The temperature of the scrubber reservoir brine is 125°F, and MWH was able to heat ambient water to 106°F during its heat exchanger experiment. MWH is investigating installing a heat exchanger that would reclaim the heat from the scrubber reservoir brine to heat the activated sludge tank during the colder months. MWH reported that it is also investigating insulating the sludge tank.

MWH reported that Heritage Industrial Services (HIS) will return to the site in the upcoming weeks to remove the OFCA ISVE yard piping backfill in order to add moisture and recompact the clay. MWH also reported that it is finalizing the contract with Environmental Contractors of Illinois for the OFCA engineered cover construction.

MWH reported that it continues to evaluate the On-Site Containment Area (ONCA) cover contours. MWH reported that it may need to relocate up to 4,000 cubic yards of PCB-impacted soils to the OFCA area for placement under the final cap. MWH will provide the details regarding the status of the ONCA cover in the upcoming weeks.

Midwest Environmental, Inc. (MEI) continued performing maintenance activities on the OFCA interim cover. MEI filled in the erosional trails, placed concrete rings around the piezometers and cleanouts. MWH reported that Great Lakes Testing performed one test of the compaction and moisture of the OFCA. The test results did not meet the compaction and moisture requirements. MWH stated that it will have MEI recompact and add moisture to the clay in the repair areas. MWH also reported that MEI will be placing concrete vaults on top of the existing vaults at EW-12 and EW-13. These vaults will create an additional confined space on top of the existing capped vaults. MWH reported that it would be unable to remove the existing vaults to place an extension because of the OFCA interim cover and the buried debris.

MWH reported that it and Austgen straightened piezometer P110. MWH determined that the elevation of the piezometer had not changed significantly with respect to the accuracy of the equipment used to measure the water levels. MWH reported that it would have the piezometer resurveyed the next time a surveyor is on-site.

MWH, EPA, and IDEM discussed the outstanding comment regarding establishing a new baseline standard for the Draft Revised Long-term Groundwater Monitoring Plan. MWH reported that it will be proposing a final remedy for the groundwater plume this fall. After discussing the outstanding issue, IDEM withdrew its comment regarding the baseline, with the assumption that the final remedy will be proposed this fall. MWH reported that it will finalize the Revised Long-term Groundwater Monitoring Plan for EPA approval.

MWH reported that the groundwater treatment plant (GWTP) was operating at 40 to 45 gpm, extracting water from all available sources except EW-12. Austgen removed the control panel from EW-12 in order for MEI to raise the elevation of the manhole. MWH also reported that it is proposing to change the GWTP effluent monitoring to be in accordance with the Performance Standard Verification Plan (PSVP). Currently, MWH monitors the pH, total suspended solids (TSS), biological oxygen demand (BOD), inorganics, volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs). MWH reported that it was proposing to monitor the pH and VOCs monthly, and to reduce the monitoring of the TSS, BOD, SVOCs, and inorganics to quarterly. Pending agency approval, MWH would initiate the reduce sampling next month.

Montgomery Watson Harza (MWH) reported that it had a minor health and safety incident on Tuesday, June 25, 2002. MWH reported that Lee Orosz pinched his right index finger while changing a blower motor. MWH reported that the incident was a no lost work time incident and that it will purchase a mechanical lift for future activities.

Attached are BVSPC weekly reports No. 66 through 69, correspondence, log book notes, and photographs of the daily activities. BVSPC's crew conducted oversight of the major field activities on June 6, 13, 20, and 27, 2002. BVSPC's crew attended four weekly construction coordination meetings at the site on June 6, 13, 20, and 27, 2002.

Topics of Concern:

- MWH detected a hole in the seal of 8-inch-diameter OFCA ISVE vapor conveyance piping at the effluent from the blower in the OFCA blower shed.
- MWH damaged the gate valve to the OFCA ISVE well SVE-14.
- The residential well located at 1007 Reder Road could not be sampled during the annual residential well sampling event in October 2001 because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- Ryan Construction installed a vibrational isolator on the effluent piping of the OFCA blower and reconstructed the connection of the blower effluent piping to the vapor conveyance piping to the GWTP.
- MWH to order replacement gate valves for SVE-14.

Upcoming Activities:

- MWH to prove-out the remaining OFCA ISVE wells.
- MEI to complete OFCA cover maintenance activities.
- HIS to remove and recompact the backfill for the OFCA ISVE yard piping.

Signature: Leigh Peters

Date: July 3, 2002

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Weekly Oversight Summary Report No. 66
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of June 3, 2002

BVSPC O/S Dates: June 6, 2002 (Ms. Peters)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	1	General Contractor
Fliteway	1	OFCA Blower Shed Contractor
Ryan Construction	1	General Contractor

Construction Activities

Major Activities:

- Fliteway reconfigured the float switches in the condensate knockout tank in the Off-Site Containment Area blower shed.
- Austgen repaired the control logic for the variable frequency drive at the thermal oxidizer.
- Ryan Construction rewired the pressure gauge switches on the natural gas supply to the thermal oxidizer.
- Montgomery Watson Harza resumed operation of the Off-Site Containment Area in-situ soil vapor extraction system.
- Montgomery Watson Harza and Austgen straightened piezometer P110.
- Montgomery Watson Harza held the weekly construction coordination meeting.

Activities Performed:

Montgomery Watson Harza (MWH) reported that Fliteway was on-site on Monday, June 3, 2002, in order to reconfigure the float switches in the condensate knockout tank. MWH also reported that Austgen revised the control logic for the knockout tank pump to ensure that the Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) system does not flood with water again from the condensate knockout tank. MWH reported that it broke the gate valve to OFCA ISVE well SVE-14 while repairing the float switches in the knockout tank. MWH stated that it is ordering a replacement valve and will close the valve during system operation.

Austgen repaired the control logic for the variable frequency drive at the thermal oxidizer. MWH attempted to resume operating the OFCA ISVE system; however, it encountered difficulties with the

startup of the system. Ryan Construction repaired the wiring on the pressure gauges for the natural gas supply at the thermal oxidizer. MWH resumed operation of the OFCA ISVE system on June 6, 2002. MWH and Ryan Construction investigated the leak in the seal in the 8-inch-diameter OFCA ISVE vapor conveyance piping at the effluent from the blower in the OFCA blower shed. MWH expects Ryan Construction to replace the connection next week.

MWH reported that Heritage Industrial Services (HIS) has not met the compaction and moisture requirements for the clay backfill over the OFCA ISVE yard piping. MWH reported that it will work with HIS to develop a plan to meet the requirements.

MWH reported that it and Austgen straightened piezometer P110. MWH determined that the elevation of the piezometer had not changed significantly with respect to the accuracy of the equipment used to measure the water levels. MWH reported that it would have the piezometer resurveyed the next time a surveyor is on-site.

MWH reported that the groundwater treatment plant (GWTP) was operating at 40 gpm, extracting water from all available sources. MWH also reported that it is proposing to change the GWTP effluent monitoring to be in accordance with the Performance Standard Verification Plan (PSVP). Currently, MWH monitors the pH, total suspended solids (TSS), biological oxygen demand (BOD), inorganics, volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs). MWH reported that it was proposing to monitor the pH and VOCs monthly, and to reduce the monitoring of the TSS, BOD, SVOCs, and inorganics to quarterly. Pending agency approval, MWH would initiate the reduce sampling next month.

MWH held the weekly construction coordination meeting on June 6, 2002.

Topics of Concern:

- MWH damaged the gate valve to the OFCA ISVE well SVE-14.
- MWH detected a hole in the seal of 8-inch-diameter OFCA ISVE vapor conveyance piping at the effluent from the blower in the OFCA blower shed.
- The residential well located at 1007 Reder Road could not be sampled during the annual residential well sampling event in October 2001 because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- MWH to order replacement gate valves for SVE-14.
- MWH reported that it would have Ryan Construction repair the hole in the conveyance piping next week.

Upcoming Activities:

- MWH to continue operating the OFCA ISVE system in accordance with the PSVP.
- MWH and HIS to develop a plan to achieve the compaction and moisture requirements for the OFCA ISVE yard piping backfill.

- Midwest Environmental, Inc. to perform maintenance activities on the OFCA clay cover.
- MWH to complete the OFCA barrier wall extraction system cleanouts with manholes and extend EW-13.
- Ryan Construction to repair the leak in the OFCA ISVE system vapor conveyance piping.
- MWH to review bids for the OFCA engineered cover.

Signature: Leigh Peters

Date: June 10, 2002

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR JUNE 6, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, June 6, 2002

MEETING TIME: 10:00

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary

GWTP Status

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

Off-Site Temporary Cover

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Looking Ahead

Week of...	Task
May 20	•
May 27	•

Next Weekly Construction Meeting

- Thursday, June 13, 2002

Name	Company	Fax Number
ROB ADAMS	MWH	630-836-8959
Leigh Peters	BUSPC	312 246 4781
CHRIS DALY	MWH	630/836-8959
LEE OROSZ	MWH	
TODD LEWIS	MWH	
TOM TINICS	MWH	
KEVIN ADLER	USEPA	(via phone)
SEAN GRADY	IDEM	(via phone)
TRANS KLINGBORTH	MWH	(via phone)
MARK TRAVERS		(via phone)

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR JUNE 6, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, June 6, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Tom Tinics, MWH
Todd Lewis, MWH
Chris Daly, MWH
Lee Orosz, MWH
Travis Klingforth, MWH (via phone)
Robert Adams, MWH
Kevin Adler, USEPA (via phone)
Sean Grady, IDEM (via phone)
Leigh Peters, BVSPC
Mark Travers, Environ (via phone)

TOPICS:

Health and Safety Summary

No health and safety incidents have occurred since the last construction meeting on May 30. No new construction activities were initiated on the site since the last meeting.

Groundwater Treatment Plant (GWTP) Status

The GWTP is currently operating at 40 gallons per minute (gpm). MWH is bringing in water from all available extraction sources. This is the current maximum extraction capacity of the Barrier Wall Extraction System (BWES) extraction wells.

MWH distributed a memo on June 5 recommending discontinuing monthly sampling of the GWTP effluent and initiating quarterly sampling in accordance with the Performance Standard Verification Plan (PSVP). MWH proposes to continue sampling monthly for volatile organic compounds (VOCs) and pH.

MWH collected the annual sediment sample from the wetland discharge point of the GWTP on June 5 and submitted it for analysis.

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

The ISVE system, which encountered operational problems on May 23, has been repaired and was started up again on June 6. MWH replaced and reconfigured the float switches in the blower shed knockout tank to address the problem.

Off-Site Area Final Cover

Three bids were received for the installation of the Off-Site Area Final Cover on June 6 and MWH is currently reviewing them. Work is scheduled to begin on August 1.

Off-Site Interim Cover Maintenance

Patrick Engineering, on behalf of Heritage Industrial, has submitted final compaction results to MWH. MWH is reviewing them and will work with Heritage Industrial to determine the next step to achieve the required compaction in the areas where ISVE conveyance has been installed.

Long-Term Groundwater Monitoring Plan

During the next weekly construction meeting, June 13, the Agencies and MWH will discuss the remaining issues that may need to be addressed for the Agencies' approval of the proposed Long-Term Groundwater Monitoring Plan.

Looking Ahead

Week of...	Task
June 10	<ul style="list-style-type: none">• MWH reviews bids for Off-Site Area Final Cover• Continued work on the ISVE system
June 17	<ul style="list-style-type: none">• Completion of required compaction in the Off-Site Area by Heritage

Next Weekly Construction Meeting

- Thursday, June 13, 2002

TMK/RAA/TAL/PIV

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Weekly Oversight Summary Report No. 67
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of June 10, 2002

BVSPC O/S Dates: June 13, 2002 (Ms. Peters)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Ryan Construction	2	General Contractor

Construction Activities

Major Activities:

- Montgomery Watson Harza began pulling vapors from Groups 3 and 4 wells for the Off-Site Containment Area in-situ soil vapor extraction system, until liquid built up in the vapor conveyance line and flooded the pressure gauges at the groundwater treatment plant.
- Ryan Construction pressure tested the Off-Site Containment Area vapor conveyance line and reconstructed the connection between the Off-Site Containment Area blower effluent piping and the vapor conveyance piping.
- Montgomery Watson Harza conducted a pilot experiment to determine the heat transfer capacity of the scrubber reservoir water.
- Montgomery Watson Harza resumed operation of the Off-Site Containment Area in-situ soil vapor extraction system.
- Montgomery Watson Harza began its review of the bids for the Off-Site Containment Area engineered cover.
- Montgomery Watson Harza held the weekly construction coordination meeting.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it successfully operated the Off-Site Containment Area (OFCA) in-situ soil vapor extraction system (ISVE) from June 6, 2002, until June 9, 2002, when MWH shut the system down remotely because of non-normal readings on the control screens. When MWH returned to the site on Monday, June 10, 2002, it observed that water had accumulated in the vapor conveyance piping and flooded the pressure gauges at the groundwater treatment plant (GWTP). MWH reported that it confirmed that the new float switches in the condensate knockout tank in the OFCA blower shed were working properly. MWH flushed the water out of the conveyance piping and cleaned the pressure gauges. MWH resumed operating the OFCA ISVE system on June 11, 2002, pulling vapors from the 22 wells in Groups 3 and 4.

MWH stopped pulling vapors and operated the thermal oxidizer in hot idle mode on June 13, 2002, in order for Ryan Construction to pressure test the vapor conveyance line between the OFCA blower shed and the GWTP. Ryan Construction determined that the vapor conveyance line was not damaged and allowing water to accumulate in the line. Based on the successful pressure test, MWH hypothesized that the water accumulating in the vapor conveyance line was from condensation. MWH began investigating possible solutions for removing the condensation from the vapor lines.

Ryan Construction installed a vibrational isolator on the effluent piping of the OFCA ISVE blower where it meets the vapor conveyance piping to the GWTP on June 13, 2002. This will aid in preventing additional holes from forming in the connecting seal from the vibrational movements of the piping. MWH resumed operation of the OFCA ISVE system after Ryan Construction completed its repairs to the system piping. MWH reported that it has not repaired the damaged gate valve to SVE-14. MWH scheduled the collection of the compliance sample for the thermal oxidizer for June 18, 2002.

On June 13, 2002, MWH conducted an experiment to determine the potential heat transfer capacity of the scrubber reservoir brine. The temperature of the scrubber reservoir brine is 125°F, and MWH was able to heat ambient water to 106°F during its heat exchanger experiment. MWH is investigating installing a heat exchanger that would reclaim the heat from the scrubber reservoir brine to heat the activated sludge tank during the colder months. MWH reported that it is also investigating insulating the sludge tank.

MWH reported that it is working with Heritage Industrial Services (HIS) to develop an appropriate plan to meet the compaction and moisture requirements for the OFCA clay cover over the ISVE yard piping. MWH reported that HIS may perform permeability tests on the clay to determine whether the current compaction and moisture will meet the permeability requirement for the OFCA clay cover.

MWH reported that it has tentatively scheduled Midwest Environmental, Inc. (MEI) to begin repair work on the OFCA clay cover during the week of June 24, 2002. MWH also reported that it received bids for the OFCA engineered cover from Koester Environmental Services, HIS, and Environmental Contractors of Illinois (ECI). MWH reported that it will be meeting with ECI to discuss their proposal and expects to award the contract in the next few weeks. OFCA engineered cover work is scheduled to begin on August 1, 2002.

MWH, EPA, and IDEM discussed the outstanding comment regarding establishing a new baseline standard for the Draft Revised Long-term Groundwater Monitoring Plan. MWH reported that it will be proposing a final remedy for the groundwater plume this fall. After discussing the outstanding issue, IDEM withdrew its comment regarding the baseline, with the assumption that the final remedy will be proposed this fall. MWH reported that it will finalize the Revised Long-term Groundwater Monitoring Plan for EPA approval.

MWH reported that the GWTP was operating at 40 gpm, with the majority of the influent being pumped from inside of the barrier wall. MWH reported that the control problems with the sand backwash have been rectified.

MWH held the weekly construction coordination meeting on June 13, 2002.

Topics of Concern:

- MWH damaged the gate valve to the OFCA ISVE well SVE-14.
- MWH detected a hole in the seal of 8-inch-diameter OFCA ISVE vapor conveyance piping at the effluent from the blower in the OFCA blower shed.
- The residential well located at 1007 Reder Road could not be sampled during the annual residential well sampling event in October 2001 because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- Ryan Construction installed a vibrational isolator on the effluent piping of the OFCA blower and reconstructed the connection of the blower effluent piping to the vapor conveyance piping to the GWTP.
- MWH to order replacement gate valves for SVE-14.

Upcoming Activities:

- MWH to continue operating the OFCA ISVE system in accordance with the Performance Standard Verification Plan.
- MWH to collect a compliance sample for the OFCA ISVE thermal oxidizer.
- MWH and HIS to develop a plan to achieve the compaction and moisture requirements for the OFCA ISVE yard piping backfill.
- MEI to perform maintenance activities on the OFCA clay cover.
- MWH to complete the OFCA barrier wall extraction system cleanouts with manholes and extend EW-13.
- MWH to review bids for the OFCA engineered cover.

Signature: Leigh Peters

Date: June 17, 2002

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR JUNE 13, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, June 13, 2002

MEETING TIME: 10:00

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary

GWTP Status

Off-Site ISVE System

- System operation through June 12. Water collecting in 8-in. conveyance pipe to thermox system (investigating if caused by pipe leak or condensate).
- System taken down for 8-in. conveyance pipe pressure testing.

Off-Site Final Cover

- Bids received June 6, 2002. Currently evaluating.
- Requested written plan from Heritage Industrial and are looking at potential solutions to achieving compaction in the SVE conveyance piping trenches.
- Off-Site cover maintenance tentatively scheduled for week of June 24.

Revised Long-Term Groundwater Monitoring Plan

Looking Ahead

Week of...	Task
June 17	<ul style="list-style-type: none">• SVE system operation
June 24	<ul style="list-style-type: none">• SVE system operation• Off-Site cover maintenance (tentative)

Next Weekly Construction Meeting

- Thursday, June 20, 2002

SIGN IN SHEET
WEEKLY CONSTRUCTION MEETING
JUNE 13, 2002

Name	Company	Fax Number
PETER J. VAGT	MWH	630 836-8959
Lough Peters	BVSP	312 346 4781
ROB ADAMS	MWH	630-836-8959
TODD LEWIS	MWH	" "
CHRIS DALY	MWH	" "
TOM TINICKS	MWH	

VIA PHONE

SEAN GRADY
~~SHAWN GRADY~~ , IDEM

KEVIN ADLER , USEPA

JOHN CLARK , IDEM

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR JUNE 13, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, June 13, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Peter Vagt, MWH
Tom Tinics, MWH
Todd Lewis, MWH
Chris Daly, MWH
Robert Adams, MWH
Leigh Peters, BVSPC
Kevin Adler, USEPA (via phone)
Sean Grady, IDEM (via phone)
John Clark, IDEM (via phone)

TOPICS:

Health and Safety Summary

No health and safety incidents have occurred since the last construction meeting on June 6. No new construction activities were initiated on the site since the last meeting.

Groundwater Treatment Plant (GWTP) Status

The GWTP is currently operating at 40 gallons per minute (gpm). MWH is bringing in water from all available extraction sources. This is the current maximum extraction capacity of the Barrier Wall Extraction System (BWES) extraction wells. The automatic backwash operation has been reestablished.

MWH is currently performing a "pilot test" to determine if the water from the new scrubber unit can be used to transfer heat to the biotank during the winter. Some of the scrubber water has been diverted through two aluminum heat-exchanging plates submerged in a cold water bath. MWH will determine the amount of heat transferred to the water and if this method will be sufficient to heat the biotank.

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

The ISVE system was operational through much of the week. The system was shutdown remotely on the evening of June 9 as a precaution due to abnormal readings communicated to the PLC. Similar to the previous week, water had been noted in the vapor lines at the treatment plant. Operation of the water knockout tank in the blower shed was verified and the system was brought back on line June 10. The system was shut off in the afternoon of June 12 to perform scheduled maintenance and testing. On June 13, the integrity of the 8-

inch diameter conveyance line from the blower shed to the GWTP was reconfirmed by pressure testing. Ryan Construction installed a vibration isolator on the blower effluent pipe in the blower shed.

Collection of analytical samples of the influent and effluent vapor streams from the thermal oxidizer and catalytic oxidizer is scheduled for June 17 or 18.

Off-Site Area Final Cover

Three bids (Koester Environmental Services, Heritage Industrial Services, and Environmental Contractors of Illinois) were received for the installation of the Off-Site Area Final Cover on June 6 and MWH is currently reviewing them. KES was the high bidder; ECI was the low bidder. HIS's bid may be rejected on technical issues. MWH has sent a letter to ECI requesting several clarifications and may coordinate a meeting to clarify outstanding issues. Work is tentatively scheduled to begin in August 2002.

Off-Site Interim Cover Maintenance

In preparation for the construction of the final cover in the Off-Site Area, MWH has developed a list of action items to be completed prior to mobilization. These items include the installation of protective structures around piezometers and extraction trench cleanouts, erosion controls, and repair of erosion damage to the clay layer. The work is tentatively scheduled to begin the week of June 24.

Heritage Industrial has not met compaction standards for the clay backfill associated with the installation of ISVE conveyance piping in the Off-Site Area. Potential solutions (including in-place permeability testing and liner enhancements) are currently being evaluated. MWH will work with Heritage Industrial to determine the next step to achieve the required compaction in the areas where ISVE conveyance has been installed. MWH anticipates providing the Agencies and Black & Veatch with proposed methods.

Long-Term Groundwater Monitoring Plan

The Long-Term Groundwater Monitoring Plan has been completed with the exception of one remaining IDEM comment. IDEM has reviewed the data and has recommended reformulating the baseline based on existing data. The existing plan recommends a response action occur upon exceedences of the baseline data. However, the IDEM comment recommended evaluating the baseline to determine if new baseline concentrations should be set since several remedial steps have been completed.

Peter Vagt explained the baseline is a tool to verify the monitoring plan is being executed correctly by identifying potential problems with laboratory, sampling procedures, etc. The baseline is not intended to be used to determine remedial action.

Actual concentrations at wells will be considered in evaluating the correct remedial approach. Sean Grady mentioned that Maximum Contaminant Levels (MCLs) should be the goal of any actions.

IDEM agreed the current baseline would be adequate and IDEM will withdraw their comment. USEPA plans to send a letter approving the Monitoring Plan. MWH will then distribute copies of the final revised groundwater monitoring plan.

Looking Ahead

Week of...	Task
June 17	<ul style="list-style-type: none">• GWTP and SVE system operation/monitoring/sampling
June 24	<ul style="list-style-type: none">• GWTP and SVE system operation/monitoring/sampling• Off-Site Area Cover Maintenance (tentative)• Award of Off-Site Area Final Cover contract

Next Weekly Construction Meeting

- Thursday, June 20, 2002

CAD/TAL/PJV/RAW

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Weekly Oversight Summary Report No. 68
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of June 17, 2002

BVSPC O/S Dates: June 20, 2002 (Ms. Peters)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	3	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Midwest Environmental, Inc.	3	OFCA Cover Repair Contractor

Construction Activities

Major Activities:

- Montgomery Watson Harza began proving out the remaining soil vapor extraction wells for the Off-Site Containment Area in-situ soil vapor extraction system.
- Montgomery Watson Harza reconfigured the blow-down logic sequence for the scrubber after the reservoir exceeded its high-high level switch, flooding the scrubber.
- Montgomery Watson Harza continued its review of the bids for the Off-Site Containment Area engineered cover and made a recommendation to the PRP Group.
- Midwest Environmental, Inc. began maintenance activities on the Off-Site Containment Area clay cover.
- Montgomery Watson Harza held the weekly construction coordination meeting.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it successfully proved-out 22 of the 42 Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) wells. MWH reported that it would begin proving the remaining 20 wells next week. On Wednesday, June 19, 2002, MWH operated the OFCA ISVE system and began preparations to collect a compliance sample when it observed that the liquid level in the scrubber reservoir had exceeded the high-high level. MWH shut down the ISVE system in order to remove the brine and repair the control logic. The control logic was repaired so that the recycle pump, that pumps at 40 gpm, will shut down should the liquid level in the reservoir exceed the high-level limit during blow-down. Once the liquid level exceeds the high-level limit, the city water valve will open, supplying only 7 gpm of water. MWH also observed that the variable frequency drive (VFD) reset its set points while the thermal oxidizer was shut down. MWH reprogrammed the VFD and resumed system operation on Thursday, June 20, 2002.

MWH installed traps at the gauges in the OFCA ISVE vapor conveyance piping in the groundwater treatment plant (GWTP). MWH reported that the traps are successful in removing the condensate from the piping that was causing the system to shut down last week.

Midwest Environmental, Inc. (MEI) began cover maintenance activities on the OFCA cover by repairing the erosion trails in the cover. MWH reported that it had completed its review of the OFCA engineered cover bids and recommended a contractor to the PRP group. MWH reported that it anticipated issuing the contract within the next few weeks.

MWH also reported that it continued working with Heritage Industrial Services (HIS) regarding the backfill over the OFCA ISVE system yard piping. MWH continues to investigate several mitigative actions for meeting the compaction and moisture requirements of the OFCA clay cover.

MWH reported that the GWTP was operating at 45 gpm, pumping from available OFCA and On-Site Containment Area extraction wells. MWH reported that it was conducting regular maintenance on the GWTP during the week.

MWH held the weekly construction coordination meeting on June 20, 2002.

Topics of Concern:

- MWH damaged the gate valve to the OFCA ISVE well SVE-14.
- The residential well located at 1007 Reder Road could not be sampled during the annual residential well sampling event in October 2001 because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- MWH to order replacement gate valves for SVE-14.

Upcoming Activities:

- MWH to continue operating the OFCA ISVE system in accordance with the Performance Standard Verification Plan.
- MWH to collect a compliance sample for the OFCA ISVE thermal oxidizer.
- MWH and HIS to develop a plan to achieve the compaction and moisture requirements for the OFCA ISVE yard piping backfill.
- MEI to install concrete rings around the piezometers and cleanouts, raise EW-12 and EW-13, and continue performing maintenance activities on the OFCA clay cover.
- Austgen to repair damaged OFCA piezometer P110.
- MWH to select the contractor for the OFCA engineered cover.

Signature: Leigh Peters

Date: June 24, 2002

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR JUNE 20, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, June 20, 2002

MEETING TIME: 10:00

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary

Groundwater Treatment Plant (GWTP) Status

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

Off-Site Area Final Cover

Off-Site Interim Cover Maintenance

Looking Ahead

Week of...	Task
June 24	<ul style="list-style-type: none">• GWTP and SVE system operation/monitoring/sampling• Off-Site Area Cover Maintenance (tentative)• Award of Off-Site Area Final Cover contract
July 1	<ul style="list-style-type: none">• GWTP and SVE system operation/monitoring/sampling

Next Weekly Construction Meeting

Thursday, June 28, 2002

SIGN IN SHEET
WEEKLY CONSTRUCTION METING
JUNE 20, 2002

Name	Company	Fax Number
TAM TINK	MWH	
Leigh Peters	BVSPC	312 346 4781
LFE DROGZ	MWH	
VIA PHONE		
REBE VAGT	MWH	
Todd Lewis		
ROB ADAMS		
CHRIS DAILY		
KEVIN ADLER	USEPA	
MARK TRAVERS		

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR JUNE 20, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, June 20, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Tom Tinics, MWH
Lee Orosz, MWH
Leigh Peters, BVSPC
Peter Vagt, MWH (via phone)
Todd Lewis, MWH (via phone)
Robert Adams, MWH (via phone)
Chris Daly, MWH (via phone)
Kevin Adler, U.S. EPA (via phone)
Mark Travers, Environ (via phone)

TOPICS:

Health and Safety Summary

No health and safety incidents have occurred since the last construction meeting on June 13. No new major construction activities were initiated on the site since the last meeting. A Health & Safety Kickoff Meeting will be held on June 21, 2002 for the maintenance activities of the Off-Site Cover.

Groundwater Treatment Plant (GWTP) Status

The GWTP is currently operating at 45-48 gallons per minute (gpm). MWH is bringing in water from all available extraction sources. MWH is performing ongoing maintenance on the clarifier and diaphragm pumps.

The U.S. EPA received the letter confirming modifications to the GWTP sampling protocol and has received comments from Black & Veatch regarding the changes. The U.S. EPA will forward those comments to MWH. Black & Veatch expressed a concern about monitoring of BOD levels in the activated sludge plant, particularly during the winter months. MWH performs weekly monitoring of removal efficiencies in the GWTP and around the carbon units.

MWH performed a "pilot test" last week to determine if the water from the new scrubber unit can be used to transfer heat to the biotank during the winter. MWH is continuing the evaluation of the results.

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

The ISVE system was operational through much of the week. The system was shut down on June 18 and 19 due to a high water level in the scrubber sump. The high level was

traced to a programming logic issue in the thermal oxidizer and GWTP controls. MWH has refined the system on June 19 and brought the system back on line.

Collection of analytical samples of the influent and effluent vapor streams from the thermal oxidizer and catalytic oxidizer is scheduled for June 20.

Off-Site Area Final Cover

MWH met with ECI on June 19 to clarify issues with their bid. MWH has rereviewed the bids and is likely to recommend ECI. MWH will work towards finalizing a contract and schedule next week. Work is tentatively scheduled to begin in August 2002.

Off-Site Interim Cover Maintenance

Maintenance of the Off-Site Cover in preparation for construction of the final cover will begin on June 21. Midwest Environmental (MEI) will be the subcontractor to perform a majority of the work. MEI is mobilizing today and will begin work on June 21. A kickoff meeting will be held June 21 to address health and safety issues.

Heritage Industrial has not met compaction indicator standards for the clay backfill associated with the installation of ISVE conveyance piping in the Off-Site Area. MWH has determined a possible course of action and will finalize this with HIS. The proposed action includes testing permeability in areas where compaction/moisture has failed. In areas that fail to meet the permeability benchmark, a bentonite mat may be installed. MWH's main objective is to comply with the Consent Decree standards utilizing an enhanced cap design.

Other

The U.S. EPA may be interested in visiting the site after the ISVE system operation is stabilized. Also, Mr. Adler presented the idea of offering a public tour of the site. Such a tour could be mentioned in the next newsletter.

Looking Ahead

Week of...	Task
June 24	<ul style="list-style-type: none">• GWTP and SVE system operation/monitoring/sampling• Off-Site Area Cover Maintenance• Award of Off-Site Area Final Cover contract
July 1	<ul style="list-style-type: none">• GWTP and SVE system operation/monitoring/sampling• Off-Site Area Cover Maintenance

Next Weekly Construction Meeting

- Thursday, June 27, 2002

CAD/RAA/TAL

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Weekly Oversight Summary Report No. 69
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of June 24, 2002

BVSPC O/S Dates: June 27, 2002 (Ms. Peters)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	1	Electrical Contractor
Midwest Environmental, Inc.	3	OFCA Maintenance Contractor
Great Lakes Testing	1	OFCA Clay Compaction Testing

Construction Activities

Major Activities:

- Montgomery Watson Harza reported a Health and Safety Incident.
- Montgomery Watson Harza began proving out the remaining 20 Off-Site Containment Area in-situ soil vapor extraction wells.
- Austgen removed the electrical box at EW-12 in order for Midwest Environmental, Inc. to raise the elevation of the well.
- Midwest Environmental, Inc. conducted maintenance activities for the Off-Site Containment Area interim cover.
- Montgomery Watson Harza held the weekly construction coordination meeting.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it had a minor health and safety incident on Tuesday, June 25, 2002. MWH reported that Lee Orosz pinched his right index finger while changing a blower motor. MWH reported that the incident was a no lost work time incident and that it will purchase a mechanical lift for future activities.

MWH reported that it began proving out the remaining 20 Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) wells. MWH reported that the OFCA ISVE system and the groundwater treatment plant (GWTP) shut down on the evening of June 26, 2002, because of a power failure from the area storms. MWH resumed operation of OFCA ISVE system and the GWTP on Thursday, June 27, 2002.

MWH reported that it previously collected the summa canister compliance sample for the thermal oxidizer after the vapor passed through the condensate knockout device. MWH reported that it would return to

collecting samples from the sample port directly, upstream of the knockout device. MWH collected another compliance sample on Friday, June 28, 2002.

Midwest Environmental, Inc. (MEI) continued performing maintenance activities on the OFCA interim cover. MEI filled in the erosional trails, and placed concrete rings around the piezometers and cleanouts. MWH reported that Great Lakes Testing performed one test of the compaction and moisture of the OFCA. The test results did not meet the compaction and moisture requirements. MWH stated that it will have MEI recompact and add moisture to the clay in the repair areas. MWH also reported that MEI will be placing concrete vaults on top of the existing vaults at EW-12 and EW-13. These vaults will create an additional confined space on top of the existing capped vaults. MWH reported that it would be unable to remove the existing vaults to place an extension because of the OFCA interim cover and the buried debris.

MWH reported that Heritage Industrial Services (HIS) will return to the site in the upcoming weeks to remove the OFCA ISVE yard piping backfill in order to add moisture and recompact the clay. MWH also reported that it is finalizing the contract with Environmental Contractors of Illinois (ECI) for the OFCA engineered cover construction.

MWH reported that it continues to evaluate the On-Site Containment Area (ONCA) cover contours. MWH reported that it may need to relocate up to 4,000 cubic yards of PCB-impacted soils to the OFCA area for placement under the final cap. MWH will provide the details regarding the status of the ONCA cover in the upcoming weeks.

MWH reported that the GWTP was pulling water from all extraction wells available except for EW-12. Austgen removed the control panel from EW-12 in order for MEI to raise the elevation of the manhole.

MWH held the weekly construction coordination meeting on June 27, 2002.

Topics of Concern:

- MWH damaged the gate valve to the OFCA ISVE well SVE-14.
- The residential well located at 1007 Reder Road could not be sampled during the annual residential well sampling event in October 2001 because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- MWH to order replacement gate valves for SVE-14.

Upcoming Activities:

- MWH to prove out the remaining OFCA ISVE wells.
- MEI to complete OFCA cover maintenance activities.
- HIS to remove and recompact the backfill for the OFCA ISVE yard piping.

Signature: Leigh Peters

Date: July 1, 2002

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR JUNE 27, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, June 27, 2002

MEETING TIME: 10:00

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary

GWTP Status

Off-Site ISVE System

Off-Site Final Cover

Looking Ahead

Week of...	Task
July 1	<ul style="list-style-type: none">• GWTP/SVE system operation• Off-Site cover maintenance
July 8	<ul style="list-style-type: none">• GWTP/SVE system operation• Off-Site cover maintenance

Next Weekly Construction Meeting

- Thursday, July 11, 2002

Name	Company	Fax Number
BOB ADAMS	WILCO	602-336-8159
TOM TUNICS	FLEET	
CHAS DALY	WILCO	
TODD LEWIS	WILCO (via phone)	
PETE VANT	WILCO (via phone)	
KEVIN AARON	EPD (via phone)	

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR JUNE 27, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, June 27, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Tom Tinics, MWH
Lee Orosz, MWH
Leigh Peters, BVSPC
Chris Daly, MWH
Robert Adams, MWH
Peter Vagt, MWH (via phone)
Todd Lewis, MWH (via phone)
Kevin Adler, U.S. EPA (via phone)

TOPICS:

Health and Safety Summary

A minor health and safety incident occurred since the last construction meeting on June 20. On June 25, 2002, while changing a blower motor in the GWTP, Lee Orosz had his right index finger pinched and cut when the motor shifted on the lifting pad. Lee immediately sought and received medical care. All health and safety protocols were followed including filing of a detailed incident report with MWH corporate health and safety officers. No work time was lost due to the incident. To avoid similar incidents in the future, a mechanical lift will be used to assist in moving heavy equipment.

Groundwater Treatment Plant (GWTP) Status

The GWTP has been operating continuously since the last construction meeting on June 20 with the exception of a power outage overnight on June 26 due to thunderstorms in the area. The plant was brought back on line on June 27. The plant is currently receiving water from all available wells except EW-12. EW-12 is off line due to cover maintenance activities in the Off-Site Area. The concrete manhole above EW-12 is being raised in preparation for construction of the final cover in the Off-Site Area. EW-12 will be brought back on line when installation of the concrete extension ring is complete. MWH continued maintenance on the clarifier thickening rake and diaphragm pumps.

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

The ISVE system was operational throughout the week with the exception of the power outage on June 26 due to thunderstorms. Collection of weekly analytical samples of the influent and effluent vapor streams from the thermal oxidizer and catalytic oxidizer is scheduled for June 28.

(Editor's Note: Evaluation of the ISVE operational data indicates flows and vacuums have been established at an additional 12 wells (bringing the total to 32 out of 42 wells). Ten wells remain to be tested for operation.)

Off-Site Interim Cover Maintenance

Midwest Environmental has completed a majority of the activities associated with the maintenance of the Off-Site Cover. These activities were completed in preparation for construction of the final cover. A kickoff meeting was held June 21 to discuss health and safety issues.

One of MEI's tasks was to repair erosion trails in the clay cover. Water was added to the clay stockpile at the borrow source location. Compaction testing of the in-place clay used to repair erosion trails was conducted on June 28, 2002. The testing indicates additional compaction and moisture is needed.

MEI installed concrete fixtures around cleanouts and piezometers in areas outside of the engineered area of the Off-Site Area cover. Fixtures at the cleanouts for Extraction Trenches 12 and 13 will be completed as part of the final cover construction.

Heritage Industrial has not met compaction indicator standards for the clay backfill associated with the installation of ISVE conveyance piping in the Off-Site Area. HIS has indicated they plan to return to the site within the next two weeks. HIS will remove the top six inches of clay, add water to the excavated clay, and replace and recompact. MWH will require compaction testing of the reinstalled clay and pressure testing the conveyance pipes to ensure the cover is completed and the pipes have not been damaged.

Off-Site Area Final Cover

MWH is proceeding towards finalizing a contract with Environmental Contractors of Illinois (ECI) to install the final cover in the Off-Site Area. It is anticipated the contract will be finalized by July 4 and work will be scheduled to begin in August 2002.

Looking Ahead

Week of...	Task
July 1	<ul style="list-style-type: none">• GWTP and SVE system operation/monitoring/sampling• Off-Site Area Cover Maintenance• Off-Site Area Final Cover contract
July 8	<ul style="list-style-type: none">• GWTP and SVE system operation/monitoring/sampling• Off-Site Area Cover Maintenance• Heritage Industrial

Next Weekly Construction Meeting

- The weekly construction meeting schedule for July 4, 2002 has been cancelled. The next meeting is schedule for Thursday, July 11, 2002.

CAD/RAA/PJV/TAL

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Weekly Construction Meeting Minutes
July 2, 2002

June 27, 2002 Meeting
Page 2

ACS NPL Site
Griffith, Indiana

(86)

4/6/02

Jeff E. Patten

0815 Arrive on-site. Cloudy, light rain, wind from west. 55°F

Personnel Present:

* Lee Christensen MNH
 * Chris Daly MNH
 * Tom Tinius MNH
 * Leigh Peters BUSPC
 * Todd Lewis MNH

0830 MNH discussing thermex system with Ryan Construction. Tom Tinius reported that the VFD was operating properly - problems with control system, not component from the water in system. C. Daly reported that MNH started thermex last night, anticipated operating today but encountering system faults. MNH discussing system with Ryan Construction to find if faults originating with components.

0915 Rich Farris from Ausstagen on site. T. Tinius reported Hitenway on-site Monday to reconfigure float switches in knockout tank. T. Tinius reported Ryan ordering parts for new piping connector where leak in seal at effluent of blow w/ silencer. T. Tinius reported that the headers to the well field is

Jeff E. Patten

4/6/02

Jeff E. Patten

(87)

closed, eliminating potential for vapors to escape from tank. MNH investigated system fault sequence with Ausstagen.

1005 Weekly Construction Meeting

Attendees - * on previous plus:

Rob Adams MNH
 Kevin Potter USEPA (via phone)
 Sean Grady IDEM (via phone)
 Travis Kingforth MNH (via phone)
 Mark Travers (via phone)

HHS: limited activity on site, no HHS issues re upcoming activities.

GWIP: running at 40 GPM from all available sources. MNH proposing to change monitoring to be in accordance with BUSPA and HPDEF permits. Currently MNH performing more sampling. Monthly monitoring of pH, KCLs quarterly monitoring of SODS, BOD, TDS, inorganics. MNH propose to start next month.

LSVE: system not operating since last week from failure in float switches in knockout tank. Ausstagen working on controls. Ryan rewired pressure switches on gas line. MNH proven 25' of LSVE miles

Jeff E. Patten

(88)

6/6/02

Jeff E. Peters

OECA: HIS having difficulty meeting compaction + moisture, to work with MWH, MWH to review OECA bids, cover maintenance work to be completed in upcoming 4 to weeks by MEI.

Look Ahead: resume ISVE, MWH review OECA cover bids, HIS to work on compacting ISVE wellhead piping backfill. MEI to repair cover; Discuss PLTUMP

Next meeting: June 13, 2002 @ 10am

1030 Mtg concluded

1040 Discussed with Rob Adams OECA KML tie-in details.

1115 Went to OECA blower shed. MWH broke gate valve at SVE14. Also MWH spoke with Ryan Construction regarding seal at vapor conveyance piping

1120 Roll 23 Photo 1 facing east of work seal at 8" HDPE vapor conveyance piping from blower to EWTP

1125 MWH operated blower/ISVE system with original group of wells online.

1130 Roll 23 Photo 2 facing north of broken gate valve at SVE14. MWH to shut valve to reduce any leak from valve and to air monitor.

1145 Left site for day

Jeff E. Peters

(89)

6/13/02

Jeff E. Peters

0745 Arrive on site, cloudy, 55°F, wind from west thunderstorms forecasted.

Personnel Present:

* Todd Lewis MWH

Jerry Clark Ryan

* Tom Finics MWH

* Chris Daly MWH

Terry Frost Ryan

* Larry Peters BUSPC

1800 Spoke with C. Daly. He reported Ryan

construction on site to pressure test conveyance

line from OECA blower shed to EWTP. MWH

wants to confirm that there is no leak in

line. MWH experiencing water in line - suspect condensation. MWH to plug conveyance

line prior to Ryan pressure testing. C. Daly

also reported that MWH hauled up

heat exchanger plates for scrubber

reservoir water to potentially use to heat sludge tank.

1810 Roll 23 Photo 3 facing west showing MWH setup for heat transfer experiment at scrubber reservoir - water.

1830 Roll 23 Photo 4 facing west at ground showing MWH measuring temperature of

Jeff E. Peters

(90)

6/13/02 Jeff Epstein

Scrubber reservoir water (brown) prior to starting heat transfer experiment. Scrubber water temp at 120°F

840 MWHT operated heat transfer experiment. Added pump to circulate water.

0855 Roll 23 Photo 5 facing east at Ryan Crst. installing flange for pressure testing line 16 from blower shed to BWTP.

0900 Spoke with C. Daly + T. Jones - they reported Group 3 + 4 IS&E wells on line. before system down for pressure testing convergence line.

0930 Reviewed Documents - Progress Report / BWTP compliance.

1000 Weekly Construction Meeting. Attendees * on previous list plus:

Rob Adams MWHT

Peter Vogt MWHT

Kevin Adler USEPA (via phone)

Sean Grady IDEM (via phone)

John Clark IDEM (via phone)

H+S: no incidents, no special activities planned for upcoming weeks

BWTP: continues to operate at 40 gpm pumping primarily from inside BWS

Jeff Epstein

(91)

6/13/02

Jeff Epstein

IS&E: Operated system from 6/6/02. Shut system down remotely on Sunday because MWHT observed not normal readings. MWHT confirmed that the condensate knockout tank was working, although system accumulated vapor in JP condensation on vapor convergence line. System on-line Monday with 27 Group 3 + 4 wells. MWHT shut system down last night, Ryan pressure testing convergence line. System to be on-line this afternoon. Compliance sampling next week. MWHT measuring heat transfer from scrubber reservoir water. DEIS: MWHT evaluating bids. Rep maintenance scheduled for week of 6/24/02. MWHT and HIS working on remedy of IS&E yard piping backlog.

RECOMP MWHT and DEIS discussed new timeline. DEIS report to be out this month and final remedy determined this year.

1110 Mtg concluded. next mtg 6/20/02 @ 10:00

1115 Todd Lewis reported pressure test on line successful. MWHT reconstructing heat transfer experiment.

Now temp observed was 106°F.

1120 Went to ORCA to observe repairs in blower shed.

Jeff Epstein

(92)

4/13/02

Jeff S. Peters

- 1125 Roll 23 Photo 6 facing west showing replacement level indicator on condensate knockout tank
- Ryan Construction replacing connection from blowdown effluent to GWT.
- 1130 Roll 23 Photo 7 facing west of wetland pond
- 1140 1st Start Dry

Jeff S. Peters
4/13/02

(93)

6/20/02

Jeff S. Peters

0720 Arrive On site. Partly cloudy. 80°F wind from South

Personnel Present:

Lee Ovasz MW 11

Jeff Peters BUSPC

0730 Work on weekly report. Thermox appears to not be pulling vapors from OFCA/SVE system. Wait for T. Tinius to arrive to discuss activities.

0800 Spoke with T. Tinius. He reported that they are having problems with the VFD. The process air line is programmed VFD not reacting or reacting for air flow. MW 11 believes it needs to reset set points. MW 11 reported that it did not receive enough SURIMA canisters to perform compliance sampling on Tuesday. MW 11 to perform on Wednesday, but scrubber problem with timers and high level and high-high level in reservoir. Recycle line pumps 40 gpm, 10 minute timer on high level switch would be ok if city water at 70 gpm, but system purged 400 gallons over shooting high-high level. Over flow did not work because small diameter tubing from heat experiment in place still and did not allow sufficient flow. MW 11 shut

Jeff S. Peters

(41)

6/20/02

Jeff Ertel

System down to remove water

0915

T. Tinius reset the low set point for VFD,
working properly. MNH also installed
traps for condensate in GWTP at gauges.

0925

MNH discussing schedule of OFCA activities
with MEI. Antigen working clay for repairs.
MEI to start work tomorrow.

1000

Weekly Construction Meeting.

Attendees - * on previous list plus:

Tom Tinius MNH

via phone: Kevin Adler USEPA

Pete Vioht MNH

Todd Lewis MNH

Rob Adams MNH

Chris Daly MNH

Mark Travers E.ON

H+S: no issues. MEI to start work tomorrow.

MNH to give MEI H+S kick-off tomorrow.

MEI to conduct toolbox H+S mngs.

MNH to not allow MEI to dig into cap.

GWTP all possible wells online @ 95-98

gpm. USEPA received effluent testing
schedule - to forward comments regarding

BOO: MNH investigating heat recovery
from scrubber brine for sludge tank.

Jeff Ertel

(45)

6/20/02

Jeff Ertel

1545 System on-line with exception of
Tuesday afternoon where scrubber absorber
exceeded high level. MNH proved out
22 of 42 wells MNH to continue present
and will assign groups for rotating operation
OFCA Cor - MNH met with ESI and to
make recommendations. Work to start in Aug.
Crewer Maintenance: MEI out on-site starting
tomorrow to repair erosion and install
concrete rings. MNH investigating options
with H+S, looking into installing bentonite
mat to meet groundwater requirements.
Meeting Schedules: next meeting 6/27/02,
meetings biweekly - 7/11, 7/25 @ 10:00.

1045 Meeting concluded

1115 Roll 23 Photo 8 facing east of traps for
condensate in vapor line

1135 Roll 23 Photo 9 facing east of replacement
piping for vapor conveyance to GWTP from
blower shed.

1200 Left site for day

Jeff Ertel
6/20/02

(96)

6/27/02 Jeff Peters

- 0730 Arrive on-site, Clear 75°F, light west wind
Personnel Present
* Lee Crose MNH
Fred Doorn MEI
Steve Field MEI
Ron Country MEI
* Chris Daly MNH
* Leigh Peters BVSPL
- Spoke with Lee Crose, he reported that they received 3/4" rain last night, MEI may not be able to work on DECA cover.
- 0750 Chris Daly reported that the power went off last night, ISVE system was down. C. Daly restarted this morning.
- 0815 Worked on reports, review of DECA interim cover COR.
- 0910 T. Timics reported that Great Lakes took sample for moisture and compaction of MEI's backfill of erosion trails. First sample did not meet requirements.
- 0930 T. Timics trained C. Daly on compliance sampling of oxidizers. T. Timics reported that he began collecting SUMMA samples after knockout devices for condensate. He reported that he was collecting

Jeff Peters

6/27/02 Jeff Peters

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- the solvent Julia samples in the sampling line before the knockout devices.
- 0945 Rudy Stora began collecting water levels of DECA SVE walls.
- 1000 Weekly construction meeting
Attendees - * on previous list plus:
Ron Adams MNH
Tom Timics MNH
Todd Lewis MNH (via phone)
Pete Vagt MNH (via phone)
Kevin Allen USEPA (via phone)
- His incident on Tuesday morning. L. Crose pinched right index finger while changing motor in blower. L. Crose went to medical center and received stitches.
MNH going to orientation and to get mechanical list for future activities.
CWTP operated fine until power failure last night. Pumping from all available sources except EW-12. Pushgen removed electrical box from EW-12 in order for MEI to raise skirt. Restarted CWTP this morning.
- BVE system ran until power failure last night. Thermax getting up to temp, to resume

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6/27/02 Eng. Meeting

Operating today. Proving out remaining 20 wells. T. Tines to collect compliance sample tomorrow. MWH to identify wells for long-term operation.

DFC cap MET working on DFC cap since 13-week not meeting compaction and moisture, to re-roll areas. MWH to place vaults over EN-3 and EN-12. MWH given contract to ECI for DFC engineered cover. Expect to be finalized early July. ECI to start in August. PIS to return to site to remove bucket fill, add moisture. And recompact bucket fill for 15% void fill. MWH to start early July.

ONCE: MWH discussing contours with PIS. May need to relocate some of the PCB impacted material.

1135 mtg concluded, Next meeting 7/1/02 @ 10:30

1140 Spoke with T. Tines - he reported that MWH not replaced gate valve on SVE-74 also reported MET putting vault directly on top of existing existing. 2 confirmed species in EN-12 and EN-13.

1155 Went to DFC to inspect work performed by MET

1100 Roll 23 Photo 10 facing southwest of vault

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Installed ground F114

Roll 23 Photo 11 facing southeast showing existing excavation well 13

Roll 23 Photo 12 facing southeast showing excavation from erosion under excavation well in snake 5 near F114

1110 Roll 23 Photo 13 facing northwest showing repaired erosion trails adjacent to erosion matting in snake 5

1115 Roll 23 Photo 14 facing southwest showing EN-2 and removed electrical box in preparation for extension vault.

1120 Roll 23 Photo 15 facing southeast showing filled in cap where stainless conduit was placed.

Roll 23 Photo 16 facing northwest at ground showing vault placed at EN-11 clean out

1130 Spoke with T. Tines regarding compliance sampling. He reported that he will return to standard method of collection from sample point. Also MET to place tarp over where stainless conduit installed in soil cover area of DFC

1200 Left site for day

~~Eng. Meeting~~
6/27/02



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 23 Photo #1

Date: 06-06-02 Time: 11:20

Photographer: Leigh Peters

Description: Photo facing east showing the hole in the seal at the 8-inch-diameter HDPE vapor conveyance piping from the OFCA ISVE blower to the GWTP (see arrow).



Site: American Chemical Services, Inc.

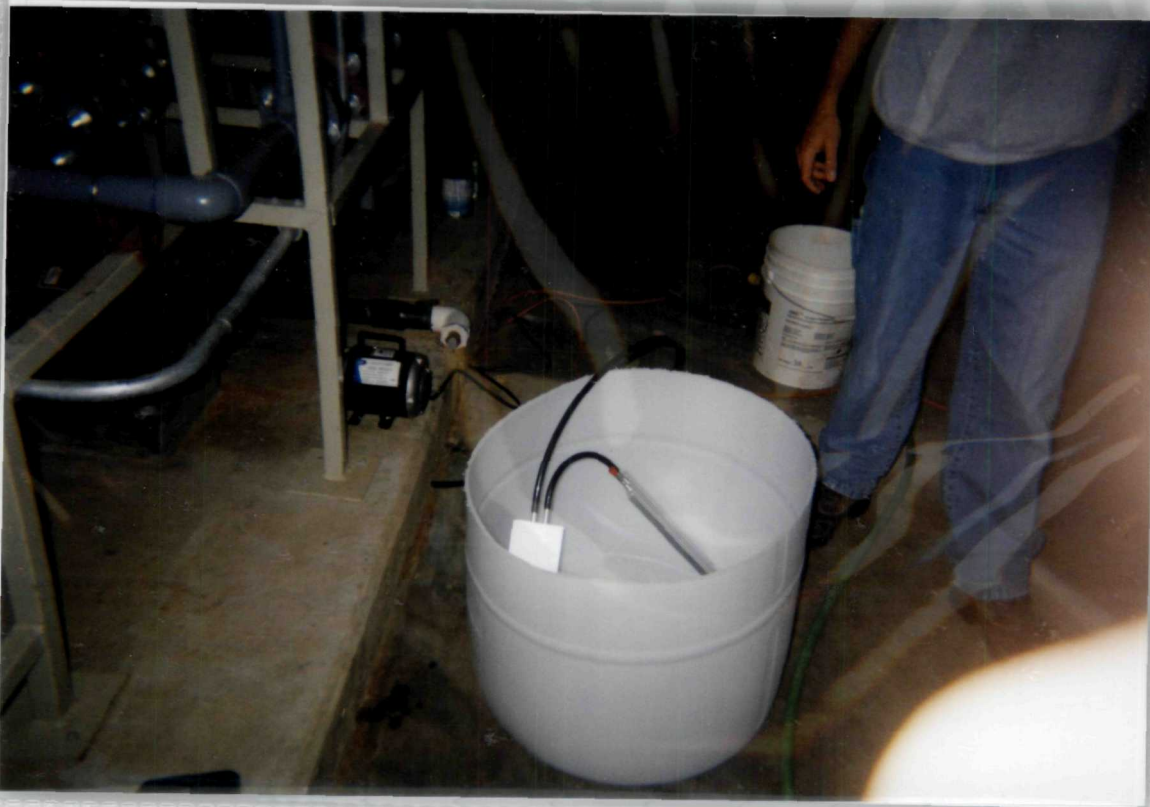
Proj. #: 46526

Roll: 23 Photo #2

Date: 06-06-02 Time: 11:30

Photographer: Leigh Peters

Description: Photo facing north showing the broken
gate valve at OFCA ISVE well SVE-14
(see arrow).



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 23 Photo #3

Date: 06-13-02 Time: 08:10

Photographer: Leigh Peters

Description: Photo facing south west showing MWH
set up for the heat transfer experiment
with the scrubber brine.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 23 Photo #4

Date: 06-13-02 Time: 08:30

Photographer: Leigh Peters

Description: Photo facing west at ground showing MWH measuring the temperature of the scrubber brine (brown colored liquid in 5-gallon bucket).



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 23 Photo #5

Date: 06-13-02 Time: 08:55

Photographer: Leigh Peters

Description: Photo facing east showing Ryan
Construction installing flange for pressure
testing the vapor conveyance piping from
the OFCA blower shed to the GWTP.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 23 Photo #6

Date: 06-13-02 Time: 11:25

Photographer: Leigh Peters

Description: Photo facing west showing the replacement water level indicator on the OFCA blower shed condensate knockout tank.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 23 Photo #7

Date: 06-13-02 Time: 11:30

Photographer: Leigh Peters

Description: Photo facing west showing the wetland
pond and drainage swale west of the
GWTP.



Site: American Chemical Services, Inc.
Proj. #: 46526
Roll: 23 Photo #8
Date: 06-20-02 Time: 11:15
Photographer: Leigh Peters
Description: Photo facing east showing the knockout traps to remove the condensate from the vapor conveyance line in the GWTP.



Site: American Chemical Services, Inc.
Proj. #: 46526
Roll: 23 Photo #9
Date: 06-20-02 Time: 11:35
Photographer: Leigh Peters
Description: Photo facing south showing the
vibrational isolator installed on the effluent
piping of the blower in the OFCA ISVE
blower shed.



Site: American Chemical Services, Inc.
Proj. #: 46526
Roll: 23 Photo #10
Date: 06-27-02 Time: 11:00
Photographer: Leigh Peters
Description: Photo facing southwest showing the
concrete vault installed around OFCA
piezometer P114.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 23 Photo #11

Date: 06-27-02 Time: 11:00

Photographer: Leigh Peters

Description: Photo facing southeast showing the
existing vault at OFCA extraction well
EW-13.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 23 Photo #12

Date: 06-27-02 Time: 11:00

Photographer: Leigh Peters

Description: Photo facing southeast showing the
erosional damage under the erosion mat
in swale 5, near swale 1.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 23 Photo #13

Date: 06-27-02 Time: 11:10

Photographer: Leigh Peters

Description: Photo facing northwest showing the repaired erosional trails located on the northern portion of the erosion mat placed in swale 5.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 23 Photo #14

Date: 06-27-02 Time: 11:15

Photographer: Leigh Peters

Description: Photo facing southwest showing the existing cover at OFCA extraction well EW-12. Note that the electrical box has been removed.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 23 Photo #15

Date: 06-27-02 Time: 11:20

Photographer: Leigh Peters

Description: Photo facing southwest showing the repaired OFCA cover where the stainless steel conduit was installed between the OFCA blower shed and GWTP.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 23 Photo #16

Date: 06-27-02 Time: 11:20

Photographer: Leigh Peters

Description: Photo facing northwest at ground
showing the vault placed around the
cleanout for extraction well EW-11.